SAFETY DATA SHEET
Dipotassium Phosphate

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Trade name: Dipotassium Phosphate, Dikaliumphoshat
Article number: BK2771
CAS Number: 7758-11-4
EINECS Number: 231-834-5
Registration number: 01-2119493919-15-0004

Relevant identified uses of the substance or mixture and uses advised against:

Application of the substance / the preparation: Formulation additive
Food additives

Company name: Nexchem Ltd
Unit 1 Underwood Court
Elm Tree Avenue
Glenfield
Leicester
Leicestershire
LE3 8SG
Tel: 0116 2311130
Fax: 0116 2311124
Emergency Tel: +44 (0) 116 2877916 or +44 (0) 7714 303742 (24 Hours)
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The substance is not to be classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Void

Information concerning particular hazards for human and environment: Aqueous solutions or powders that become wet produce extremely slippery conditions.

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

Label elements:

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void
Signal word: Void
Hazard statements: Void

Other hazards:

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

[cont...]

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Substances
CAS No. Designation: 7758-11-4 dipotassium hydrogenorthophosphate

Identification number(s):
EINECS Number: 231-834-5
Description: crystalline powder

4. FIRST AID MEASURES (SYMPTOMS)

Description of first aid measures:
General information: No special measures required.
After inhalation: Supply fresh air; consult doctor in case of symptoms.
After skin contact: Wash with water and soap.
After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing: Rinse out mouth and then drink plenty of water (approx. 500 ml).
In case of persistent symptoms consult doctor.

Information for doctor:
Most important symptoms and effects, both acute and delayed: No further relevant information available.
Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:
Suitable extinguishing agents: Use fire fighting measures that suit the environment.
CO2, extinguishing powder or water jet. Fight larger fires with foam.

Special hazards arising from the substance or mixture: None

Advice for fire-fighters:
Protective equipment: No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid causing dust.
Wear protective clothing.

Environmental precautions: Do not allow concentrated solutions to enter drainage system, surface or ground water.

Methods and material for containment and cleaning up: Collect mechanically.

Reference to other sections: No dangerous materials are released.

7. HANDLING AND STORAGE

Handling:
Precautions for safe handling: No special precautions necessary if used correctly.
Prevent formation of dust.

[cont...]
Information about protection against explosions and fires: The product is not flammable.

Conditions for safe storage, including any incompatibilities:
Storage:
Requirements to be met by storerooms and containers: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Store in cool, dry conditions in well-sealed containers.
VCI-Storage class: 13
Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.
Control parameters:
Components with critical values that require monitoring at the workplace: Not required.
CAS No. Designation of material % Type Value Unit: General dust exposure limit, German TRGS 900 (2009) 3 mg/m3 measured as alveolic part
Additional information: The lists that were valid during compilation were used as a basis.

Exposure controls:
Personal protective equipment:
General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals.
  Wash hands during breaks and at the end of the work.
  Avoid contact with the eyes and skin.
Breathing equipment: Use breathing protection in case of insufficient ventilation.
  Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2)
Protection of hands: Protective gloves:
  In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).
  Layer thickness of gloves at least: 0.4 mm
  In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
  Layer thickness of gloves at least: 0.7 mm
Material of gloves: Butyl rubber, BR
  Fluorocarbon rubber (Viton)
  Nitrile rubber, NBR
  Natural rubber, NR
  Chloroprene rubber, CR
  Neoprene gloves
Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

[cont...]
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:
General Information:
Appearance:
Form: Crystalline powder
Colour: White
Smell: Odourless
Odour threshold: Not applicable
pH-value (10 g/l) at 20°C: ca. 9.3
Change in condition:
Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined
Flash point: Not applicable
Inflammability (solid, gaseous): Product is not inflammable.
Ignition temperature: Not applicable
Decomposition temperature: Not determined
Danger of explosion: Product is not explosive.
Critical values for explosion:
Oxidizing properties: None
Steam pressure: Not applicable
Density:
Settled apparent density at 20°C: ca. 1080 kg/m3
Evaporation rate: Not applicable
Solubility in / Miscibility with Water at 20°C: ca. 1600 g/l
Segregation coefficient (n-octanol/water): ca. -2 log POW
Viscosity:
dynamic: Not applicable
Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity:
Chemical stability:
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions: No dangerous reactions known
Conditions to avoid: No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known
11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:
LD/LC50 values that are relevant for classification:
Components Type Value Species: Product LD50: oral > 2000 mg/kg rat

Primary irritant effect:
On the skin: No irritant effect.
On the eye: Moderate irritation
Sensitization: No sensitizing effect known.

Additional toxicological information: In our experience and according to the information provided to us, the product does not have any harmful effects when used and handled according to specification. The material is not subject to classification according to EC lists in the last version.

Repeated dose toxicity: No further relevant information available.

12. ECOLOGICAL INFORMATION

Toxicity:
Acquatic toxicity: No further relevant information available.

Type of test Effective concentration Method Assessment: Fish toxicity LC0: > 900 mg/l (Golden orfey, 48h)

Persistence and degradability:

Other information: Easy elimination possible by flocculation or adsorption by sludge.
Inorganic salts are basically not biodegradable.

Behaviour in environmental systems:
Components: Product should not get in higher quantities into waste water because it may act as a plant nutrient and precipitate heavy metals.

Bioaccumulative potential: Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Mobility in soil: No further relevant information available.

Ecotoxic effects:

Other information: No COD, no BOD, no AOX
No VOC according to EC-directive 1999/13/EC

Additional ecological information:
General notes: Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:
Recommendation: Smaller quantities can be disposed with household garbage. Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
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14. TRANSPORT INFORMATION

Special precautions for user: Not applicable.

Transport/Additional information: Not dangerous according to the above regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

National regulations:

Decree to be applied in case of technical fault: Major accidents hazards regulation, annex: not applicable (German regulation)

Water hazard class: WGK 1: low water hazard risk (German regulation)

Other regulations, limitations and prohibitive regulations: The general dust exposure limit of 3 mg/m³, measured as alveolic part has to be observed (German TRGS 900, 2006).

Chemical inventories:

Europe (EINECS): yes
Australia (AICS): yes
Canada (DSL): yes
Japan (ENCS): yes
China (IECSC): yes
Korea (KECI): yes
USA (TSCA): yes
Philippines (PICCS): yes
New Zealand (NZIOCL): yes

Chemical safety assessment: A Chemical Safety Assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user’s attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

[cont...]
16. OTHER INFORMATION

**Department issuing data specification sheet:** Product Safety and Regulatory Affairs

**Contact:** Product Safety and Regulatory Affairs

**Abbreviations and acronyms:**
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 per cent
- LD50: Lethal dose, 50 per cent

**Legal disclaimer:**
The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.